

REMARKS

In response to the Office Action mailed May 21, 2003, claims 1 and 9 have been amended. Claims 1-12 are now active in this application, of which claims 1 and 9 are independent. Claims 2 and 5 have been amended to correct minor grammatical errors.

Entry of the Amendments and Remarks is respectfully requested because entry of Amendment places the present application in condition for allowance, or in the alternative, better form for appeal. No new matters are believed to be added by these Amendments. Based on the above Amendments and the following Remarks, Applicants respectfully request that the Examiner reconsider the outstanding objections and rejections and they be withdrawn.

Rejections Under 35 U.S.C. §103

In the Office Action, claims 1-12 have been rejected under 35 U.S.C. §103(a) as being unpatentable over U. S. Patent No. 6,388,651 issued to Kinoshita, *et al.* ("Kinoshita") in view of U.S. Patent No. 5,973,660 to Hashimoto ("Hashimoto"). This rejection is respectfully traversed.

Kinoshita is directed to a flat-panel display having a plurality of horizontal pixel lines each formed of display pixels arranged in one line and composed of a first and a second driver groups arranged to divide the pixels into two groups and drive the two groups. A drive circuit board includes a gate-array control section connected to the first and second driver groups by a first and second wiring lines separated electrically. Hashimoto discloses a liquid crystal display including a gray level voltage and a gray level generator.

In order to reject a claim under 35 U.S.C. §103(a) there must be some suggestion or motivation, either in the reference themselves or in knowledge generally available to one of ordinary skill in the art, to modify the reference or to combine the reference teachings. Second,

there must be a reasonable expectation of success. Finally, the prior art reference (or references when combined) must teach or suggest all of the claimed limitations.

Claim 1 is amended to now include the limitation,

...wherein the data signal driver includes two groups of the data signal driver simultaneously outputting a data signal from the first and the second image signal, one of which is the left-side of the signal processor and the other of which is the right-side of the processor. (emphasis added)

Applicant submits that neither Kinoshita nor Hasimoto teach or suggest simultaneous outputting of a data signal from the first and second image signal, one of which is the left-side of the signal processor and the other of which is on the right-side of the processor. As clearly shown in Fig. 4 of Kinoshita (and described at least at col. 4. line 54- col. 5 line 16), the image signals from the left side (e.g., DL(R), DL(G), DL(B), etc) are written at different times as the right side (e.g., DR(R), DR(G), DR(B), etc). The horizontal clock signal CK-L and associated data occur in the first half of horizontal time period (1H) and stop in the latter half of the time period. In the second half of time period 1H, horizontal clock signal CK-R and associated data occur. As can be seen in Fig. 4, these are not simultaneous.

In the present invention, the image signals of the left side and the right side of the processor occur simultaneously as shown at least in Figure 4 and described at least at page 7, lines 3-16.

Claim 9 has been amended to recite, in part,

wherein the plurality of wires comprises a first group of wires for transmitting the first image signal and a second group of wires for transmitting

the second image signal, and the first group of wires are entirely spaced apart from the second group of wires, and the first image signal and the second image signal being transmitted simultaneously (emphasis added)

Applicant submits that neither Kinoshita nor Hasimoto teach or suggest and the first image signal and the second image signal being transmitted simultaneously via a first and second group of wires entirely spaced apart. Again, Applicant submits that neither Kinoshita nor Hasimoto teach or suggest a plurality of wires comprises a first group of wires for transmitting the first image signal and a second group of wires for transmitting the second image signal, and the first group of wires are entirely spaced apart from the second group of wires, and the first image signal and the second image signal being transmitted. As clearly shown in Fig. 4 of Kinoshita (and described at least at col. 4. line 54- col. 5 line 16), the image signals from the left side (e.g., DL(R), DL(G), DL(B), etc) are written at different times as the right side (e.g., DR(R), DR(G), DR(B), etc). The horizontal clock signal CK-L and associated data occur in the first half of horizontal time period (1H) and stop in the latter half of the time period. In the second half of time period 1H, horizontal clock signal CK-R and associated data occur. As can be seen in Fig. 4, these are not simultaneous.


In the present invention, the first image signal and the second image signal are transmitted simultaneously as shown at least in Figures 3 and 4, and described at least at page 7, lines 3-16. As to the dependent claims 2-8 and 10-12, Applicant submits that these claims depend from respective allowable independent claims 1 and 9, and accordingly are at least allowable due to this dependency. Accordingly, Applicants respectfully request that the 35 U.S.C. §103 rejection over claims 1-12 be withdrawn.

CONCLUSION

All of the stated grounds of objection and rejection have been properly traversed, accommodated, or rendered moot. Applicants therefore respectfully request that the Examiner reconsider all presently outstanding objections and rejections and that they be withdrawn. Applicants believe that a full and complete response has been made to the outstanding Office Action and, as such, claims 1-12 are in condition for allowance. If the Examiner believes, for any reason, that personal communication will expedite prosecution of this application, the Examiner is invited to telephone the undersigned at the number provided.

Prompt and favorable consideration of this Amendment is respectfully requested.

Respectfully submitted,



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